For Laboratory Use Only SMALL VOLUMES USED CONTAINER SIZE RANGE 2 OUNCE-1 GALLON MAXIMUM

MATERIAL SAFETY DATA SHEET

T Acidar a Germania muselmost									
Section 1 - PRODUCT IDENTIFIC	CATION								
DEARBORN CHEMICAL CO., Subsidiary W. R. Grace & Co.						EMERGENCY PHONE NO. 312/438-8241			
ODDRESS 300 Genesee St., Lake Zur	rich, I	L 60047			-			•	
HEMICAL NAME AND SYNONYMS Hardness buffer soluti	TRADE				E NAME OR CODE IDENT Code 517				
Section 2 - INGREDIENTS		CAS No.		%		EXPOSURE CRITERIA			
	٠,								
A and are bondered do		1226 21 6		0 D T 10 O T	50	٠			
Ammonium hydroxide	_	L336216		approx.	30	•		:	
Sodium sulfide	3	L313-82-2		approx.	5				
					MEDA C-	1 1 0 0			
· .				 	NFPA CO	de: 1-0-0			
Section 3 — PHYSICAL DATA			,					·	
BOILING POINT, 760mm Hg	212°F.					N/A	I/A		
PECIFIC GRAVITY (H ₂ 0 = 1)		1.0	VAPOR PRESSURE					<u> </u>	
/APOR DENSITY (AIR = 1)		N/A	SOLUBILITY IN H ₂ O, % BY WT.					plete MA	
VOLATILES BY VOLUME	اب ــــــا	N/A		ORATION F	RATE,	= 1			
APPEARANCE AND ODOR SUPEEr Co.	dor 110	quid with	рΗ	'.				U/K	
Section 4 - FIRE AND EXPLOSI	ON HAZ				·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
FLASH POINT (and Method Used) None		FLAMMABLE LOWER	LIMITS I	n AIR, % by UPP	VOLUME ER N/A	AUTO IGNIT		ERATURE.	
EXTINGUISHING MEDIA		Foam	□ CO ₂	D	ry Chemica	ı)ther		
SPECIAL FIRE FIGHTING PROCEDURES	}	None					-		
UNUSUAL FIRE AND EXPLOSION HAZA	ARD	None							
		None							
 Section 5 – REACTIVITY DATA 		z - · · ·							
	CONDITIO	ONS TO AVOID	_)	 			-		
Stable □ Unstable	None								
INCOMPATIBILITY (Materials to Avoid)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		None			 		
				none				•	
HAZARDOUS DECOMPOSITION PRODUC Ammonia and hydrogen s		gases	<u> </u>				•		
AZARDOUS POLYMERIZATION	CONDIT	IONS TO AVO	ID.				· ·		
May Occur Will Not Occur	COMPIT	IOHO TO AVO		No	ne		•	-	
El may occur El Milli Hot occur		· · · · · · · · · · · · · · · · · · ·					over)	<u> </u>	
						(c	2 A C T \		

MATERIAL SAFETY DATA SHEET (Continued)
Section 6 HEALTH HAZARD INFORMATION
Not established
FFECTS OF OVEREXPOSURE
INHALATION May cause nasal irritation. Avoid fumes. Remove from area of vapors.
In the course of
INGESTION Irritating or harmful to mucous membrane and tissue. If ingested, drink quantities of milk or water. Induce vomiting by putting finger down throator use of syrup of ipecac.
syrup or recac.
SKIN OR EYE CONTACT
Skin: wash skin with soap and water. Eyes: Fidsh copiously with water.
Contact physician immediately.
EMERGENCY AND FIRST AID PROCEDURES
See above
THE PROTECTION INCORMATION
Section 7 - SPECIAL PROTECTION INFORMATION
VENTILATION REQUIREMENTS Mechanical
RESPIRATORY PROTECTION (Specify Type)
In amounts normally used for test purposes, protection not usually required.
EVE PROTECTION GLOVES (Specify Type)
EYE PROTECTION Safety glasses (goggles when neutraliz- None
ing)
OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type) None
Section 8 - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Use absorbent paper towel and discard in waste container. Rinse area of spill
with water.
WASTE DISPOSAL METHOD Neutralize with dilute hydrochloric acid then place liquid in
chemical waste container. Destroy bottle. HW-D002
Section 9 - SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Protect container from physical damage. Keep closed when not in use.
Protect container from physical damage. Keep closed when not in use.
OTHER PRECAUTIONS Store in cool place.
Shipping Name: DOT ORM-A, NOS. Ammonium Hydrosulfide Solution UN 2818 (1 quart only)*
IATA *Ammonium Polysulfide Solution Prepared By W. M. Morris UN 2818 :
8/82 (10/84 Revised)